

The nth Term *ramp up*

ANSWERS

a Find the n th term of 4, 10, 18, 28, ... $n^2 + 3n$ n^2 and a multiple of n	b Find the n th term of -3, 0, 5, 12, ... $n^2 - 4$ n^2 moved down	c Find the n th term of 1, 8, 21, 40, ... $3n^2 - 2n$ $3n^2$ with a negative n term	d Find the n th term of 5, 8, 9, 8, ... $6n - n^2$ a negative second difference
e Find the n th term of 1, 4, 8, 13, ... $\frac{n^2}{2} + \frac{3n}{2} - 1$ a half n^2 and a number	f Which term of $2n^2 - 3$ is 125? the 8th which term: undo $2n^2 - 3$	g Find the first term of $2n^2 + 3$ that is more than 200 203 the first term over a value	h Find the smallest term of $n^2 - 6n + 10$ 1 the smallest term of a quadratic
i Find the term that n^2 and $4n + 12$ give at the same position 36 where two n th terms are equal	j Find the n th term of $\frac{2}{5}, \frac{3}{7}, \frac{4}{9}, \frac{5}{11}, \dots$ $\frac{n+1}{2n+3}$ fractions: two linear rules	k $an^2 + b$ has 1st term 5 and 3rd term 21. Find a and b . $a = 2, b = 3$ $an^2 + b$ from two terms	l $n^2 + bn + c$ has 2nd term 8 and 4th term 26. Find b and c . $b = 3, c = -2$ $n^2 + bn + c$ from two terms apart

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